



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Sundaram et al.

Title: LOW BANDWIDTH ZERO KNOWLEDGE AUTHENTICATION

PROTOCOL AND DEVICE

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I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on:

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. pl.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

PLG 2/93 IDS.FRM

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

- X 1.97(b) This Information Disclosure Statement is filed:
 - (1) Within three months of the filing date of a national application; OR
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 - (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

- ___ 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:
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- the Certification under 37 CFR
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 the fee of \$240.00 under 37 CFR
 1.17(p).
- __ 1.97(d) This Information Disclosure Statement is filed after the mailing date of either:
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- (1) the Certification under 37 CFR 1.97(e) as set out below; AND
- (2) Petition is hereby made under 37 CFR
 1.97(d) for consideration of this
 Information Disclosure Statement; AND,
- (3) Authorization to charge the petition fee of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby certifies that:

each item of information contained in this Information
Disclosure Statement was cited in a communication from
a foreign patent office in a counterpart foreign
application not more than three months prior to the
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no item of information contained in this Information
Disclosure Statement was cited in a communication from
a foreign patent office in a counterpart foreign
application, or to the knowledge of the undersigned
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Authorization is hereby given to charge the indicated fee(s) to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to Deposit Account No. 50-0749.

Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By:

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Enclosures

Sheet	1	of	_1

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Form PTO-1449 U.S. DEPT OF COMMERCE (modified 2/91) Patent and Trademark Office			Attorney Docket Number: CR-1382	;	Serial Number: 10/649,855						
INFORMATION DISCLOSURE CITATION											
FEB 0 4 2004			Applicant: Sundaram et al.								
			Filing date: Group art area: August 26, 2003								
TENT	MET	U.S.	. PAT	ENT DOCUMENTS							
Examiner iner Initial	Patent number	Date		Name	Class	Sub- class	Filing da if approp				
		FORET	GN PA	ATENT DOCUMENTS	L	1		* * * * * * * * * * * * * * * * * * * *			
	Document number Date Country				Class	s Subclass	Translation				
	:						YES	NO			
							<u> </u>				
<u> </u>	OTHER DOCUM	ENTS (Includi	ng Aut	thor, Title, Date, Pe	ertinen	t Pages,	Etc.)				
1.	provably s	Cramer R., and Shoup V., "A practical public key cryptosystem provably secure against adaptive chosen ciphertext attack," Advances in Cryptology-CRYPTO '98, pp. 13-25 (1998).									
2.	protocol f	Guillou L. C., and Quisquater JJ., "A practical zero knowledge protocol fitted to security microprocessor minimizing both transmission and memory," EUROCRYPT '88, pp. 123-128 (1988).									
3.	Guillou L.	Guillou L. C., and Ugon M., "Smart card: a highly reliable and portable security device," Advances in Cryptology-CRYPTO '86.									
4.	logarithms vol. 1, pp	LaMacchia B. A., and Odlyzko A. M., "Computation of discrete logarithms in prime fields," Designs, Codes and Cryptography, vol. 1, pp. 46-62 (1991).									
5.	Communicat	Morris R., and Thompson K., "Password security: a case history," Communications of the ACM, vol. 22, pp. 594-597 (1979).									
6.	Quisquater zero knowl	Quisquater JJ., Guillou L., and Berson T., "How to explain zero knowledge protocols to your children," Advances in Cryptology-CRYPTO '89, LNCS 435, pp. 628-631 (1989).									
Examiner:				Date Considered:							
L'aminet:				Date constanted.							

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP $\delta609$; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.